

ABSTRACT OF THE DISCLOSURE

An electric storage battery and method of manufacture thereof characterized by a feedthrough pin which is internally directly physically and electrically connected to an inner end of a positive electrode substrate. A C-shaped mandrel extends around the pin and substrate end enabling the pin/mandrel to be used during the manufacturing process as an arbor to facilitate winding layers of a spiral jellyroll electrode assembly. The pin additionally extends from the battery case and in the final product constitutes one of the battery terminals with the battery case comprising the other terminal.

Active material is removed from both sides of the outer end of the negative electrode in the jellyroll to allow room for adhesive tape to secure the jellyroll. The electrolyte is injected through the open end of the case after the endcap is welded to the negative electrode but before sealing the endcap to the case. The electrolyte is preferably injected through the C-shaped mandrel to facilitate and speed filling.